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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Choi et al.

App. No.:

10/806,956

GPAU:

2834

Filing Date:

03/23/2004

Examiner:

T. M. Dougherty

Dkt. No.:

PA128-04D09

Conf. No.:

2332

For:

AN APPARATUS TO CONTROL DISPLACEMENT OF A BODY SPACED-

APART FROM A SURFACE

#### INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Mail Stop AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### · Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

$\boxtimes$	Form(s)	PTO/SB/08A	and/or	PTO/SB/08B	or	PTO/1449
П	Other:					

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

### FEES DUE

This Information Disclosure Statement is being filed:

within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is believed required.

- before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- during the period specified in § 1.97(c). No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this information disclosure statement.
- Applicant(s) does not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

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Typed Name: Katrina Prati

Date: 10-29-04

Respectfully Submitted,

Kenneth C. Brooks, Reg. No. 38,393

Legal Department

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Austin, TX 78758-1536

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of

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Complete if Known					
Application Number	10/806,956				
Filing Date	March 23, 2004				
First Named Inventor	Choi et al.				
Group Art Unit	2834				
Examiner Name	Dougherty, Thomas M.				
Attorney Docket Number	PA128-04D09				

	, ,	U.C. Detrail Da		U.S. PATENT DOCUMEN		Pages Columns Lines
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Doc	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	4,070,116		Frosch et al.	01-24-1978	
	A2	4,600,309		Fay	07-15-1986	
	A3	4,848,911		Uchida et al.	07-18-1989	
	A4	5,074,667		Miyatake	12-24-1991	
	A5	5,148,036		Matsugu et al.	09-15-1992	
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	A17	6,326,627	B1	Putvinski et al.	12-04-2001	
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	A21	6,534,418	B1	Plat et al.	03-18-2003	
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	A34	5,431,777		Austin et al.	07-11-1995	
Examiner Signature		<del></del>	<u> </u>		Date Considered	

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Complete if Known					
Application Number	10/806,956				
Filing Date	March 23, 2004				
First Named Inventor	Choi et al.				
Group Art Unit	2834				
Examiner Name	Dougherty, Thomas M.				
Attorney Docket Number	PA128-04D09				

Examiner	Cite	U.S. Patent Do		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines,
Initials*	No.1	Number	Kind Code <sup>2</sup> (if known)	of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
	A35	5,422,295		Choi et al.	06-06-1995	
	A36	5,421,981		Leader et al.	06-06-1995	
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Examiner Signature					Date Considered	

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Sheet 3 of 8

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Complet	te if Known					
Application Number	10/806,956					
Filing Date	March 23, 2004					
First Named Inventor	Choi et al.					
Group Art Unit	2834					
Examiner Name	Dougherty, Thomas M.					
Attorney Docket Number	PA128-04D09					

	Cite No.1	U.S. Patent Doo		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines,
Examiner Initials*	Cite No.	Number	Kind Code <sup>2</sup> (if known)	of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
	A69	4,999,280		Hiraoka	03-12-1991	
	A70	5,071,694		Uekita et al.	12-10-1991	
	A71	5,169,494		Hashimoto et al.	12-08-1992	
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Examiner Signature				<u> </u>	Date Considered	

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Complete if Known Substitute for form 1449A/PTO **Application Number** 10/806,956 INFORMATION DISCLOSURE March 23, 2004 **Filing Date** STATEMENT BY APPLICANT First Named Inventor Choi et al. Group Art Unit 2834 (use as many sheets as necessary) **Examiner Name** Dougherty, Thomas M.

Attorney Docket Number

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				J.S. PATENT DOCUMENTS	<u> </u>	
Examiner Initials*	Cite No.1	U.S. Patent Doc	ument Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
•	A103	6,646,662	B1	Nebashi et al.	11-11-2003	
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				FOREIGN	PATENT DOCUMENTS			
Examiner Initials*	Cite No.1	Office <sup>3</sup>	Foreign Patent Document  Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ,
	A115	JP	63-138730		Koji	12-01-1986		T
	A116	JP	55-88332		Masahiro	12-26-1978	· · ·	╁
	A117	JP	57-7931		Tadao et al.	06-18-180		
	A118	JP	02-92603		Kurikawa et al.	04-03-1990		$\top$
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Substitu	ute for form 1449B/	/PTO	ž	Complete if Known			
				Application Number	10/806,956		
INF	ORMATION	I DISC	LOSURE	Filing Date	March 23, 2004		
STA	ATEMENT E	BY AP	PLICANT	First Named Inventor	Choi et al.		
				Group Art Unit	2834		
	(use as many she	eets as nec	cessary)	Examiner Name	Dougherty, Thomas M.		
Sheet	6	of	8	Attorney Docket Number	PA128-04D09		

OTHER PRIC	OR ART - I	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A122	Abstract of Japanese Patent 63-138730	
····	A123	Abstract of Japanese Patent 55-88332	
	A124	Abstract of Japanese Patent 57-7931	
	A125	Abstract of Japanese Patent 02-92603.	
	A126	Translation of Japanese Patent 02-92603.	
	A127	Abstract of Japanese Patent 02-24848.	
	A128	Translation of Japanese Patent 02-24848.	
	A129	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/	
	A130	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	_
	A131	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
	A132	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Complete if Known Substitute for form 1449B/PTO **Application Number** 10/806,956 INFORMATION DISCLOSURE **Filing Date** March 23, 2004 STATEMENT BY APPLICANT **First Named Inventor** Choi et al. Group Art Unit 2834 (use as many sheets as necessary) Dougherty, Thomas M. Examiner Name 8 PA128-04D09 of Attorney Docket Number Sheet

OTHER PRIO	R ART - I	NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	A133	HU et al., "Flourescence Probe Technicques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9; "Macromolecules" 1998, vol. 31, no.13, pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998		
	A134	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online[Retreived 9/23/04 from URI:http://www.zyvex.com/nanotech/feynman.html.		
	A135	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What is UV Curing?", 45 pp [online[Retreived 9/24/04 from URL:http://www.cibasc.com/image.asp?id=4040.		
	A136	Communication Relating to the Results of the Partial International Search; International Appl. No. PCT/US2002/015551.		
	A137	Papirer et al., "The Graftijng of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.		
	A138	Abstract of Papirer et al., "The Graftijng of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.		
	A139	Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	ì	
	A140	Abstract of Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.		
	A141	Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monoloayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.		
	A142	Abstract of Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monoloayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.		
	A143	Roos et al., "Nanoimprint Lithography with a Commerical 4 Inch Bond System for Hot Embossing," October 2001, pp. 427-435, vol. 4343.		

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				Examiner Name	Dougherty, Thomas M.	
Sheet	8	of	8	Attorney Docket Number	PA128-04D09	

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